

## WHAT IS CLAIMED IS:

1. A mobile phone with base-detachable hinge structure, comprising:

a base unit;

a display unit, which comprises a first hinge hole and a first hinge spindle;

5 a hinge structure which comprises a second hinge spindle to fit into the first hinge hole joining up the hinge structure with the display unit, wherein the hinge structure is attached to and detached from the base unit by means of a fixing device; and

10 a protection casing, which is formed by joining up the top protection casing with the root protection casing forming a second hinge hole into which the first hinge spindle fits joining up the protection casing with the display unit.

- 15 2. The mobile phone according to claim 1, wherein the fixing device is a screw, passing through a screw hole on the base unit, is fastened to the tooling hole on the hinge structure.

3. The mobile according to claim 1, wherein the display unit further includes:

a Liquid Crystal Display (LCD); and

a flange, which is situated at one end of the display unit, having the first

hinge hole and the first hinge spindle;

4. The mobile phone according to claim 1, wherein the flange and the display are formed in unity.

5 5. The mobile phone according to claim 1, wherein the mobile phone further comprises:

a flexible circuit board, which is inside the protection casing, comprising a winding to enhance the flexibility of the flexible circuit board.

6. The mobile phone according to claim 5, wherein the flexible circuit board is made of a flexible material.

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